Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003:

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6				
TEAR		SIZES (L)		PROCEDURE	CLASS "	DDI, TC, CAC, ECM, EGR, OC,					
2009	9CEXH0661MAE 10.8		Diesel	Diesel	HHDD	PTOX	CIVID				
	NS CONTROL	ADDITIONAL IDLE EMISSIONS CONTROL 5									
	30g	N/A									
ENGINE (E (L) ENGINE MODELS / CODES (rated power, in hp)										
10.8		See attachment for engine models and ratings									
	icable; GVWR=gross vehicle : =horsepower; kw=kilowatt; h		Rxyz=Title 13, California Code of	Regulations, Sect	ion xyz; 40 CF	R 86.abc=Title 40, Code of Federal Regulations	s, Section 86.abc;				

CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel;

L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavyduty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in	NMHC		NOx		NMHC+NOx		CO		PM		нсно	
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.5	0.5	*	*	*	*	15.5	15.5	0.01	0.01	*	*
FEL	*	*	*	*	2.1	2.1	•	*	*	•	*	*
CERT	0.04	0.01	*	*	1.66	1.61	0.35	0.02	0.002	0.002	*	*
NTE	0.6		*		2.6		19.4		0.02		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" (HDDE Test Procedures) adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations. The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this

day of February 2009.

Annette Hebert, Chief **Mobile Source Operations Division**

LWM HDD=iign/medium/neavy neavy-duty dieset; UB=urban bus; HDD=heavy duty Otto;

ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; NAC=NOx adsorption datalyst; SCR-U / SCR-N=selective datalytic reduction – urea / -- ammonia; WU (prefix) = warmup catalyst; DPF=dieset particulate filter; PTOX=periodic trap oxidizer; HO2s/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor);
TBI=throttle body fuel injection; SFI/MFI=sequential/multi porf fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; BI/DDI=indirect/direct dieset injection; TC/SC=turbo/
super charge; CAC=charge air cooler; EGR / EGR-C=exhaust gas recirculation / cooled EGR; FAIR/AIR=pulsed/secondary air injection; SPL=smoke pulf limiter; ECM/PCM=engine/powertrain
control module; EM=engine modification; 2 (prefix)=parallet; [2) (suffix)=in series;

ESS=engine shutdown system (per 13 CCR 1956.8(a)(6)(A)(1); 30g=30 g/fn NOx (per 13 CCR 1956.8(a)(6)(C); APS =internal combustion auxiliary power system; ALT=atternative method
(per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) por of CNG/AI/M Gruel systems; N/A=not applicable (e.g., Otto engines and vehicles);

Engine Model Summary Template



Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5,Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torq	9.Emission Control ueDevice Per SAE J1930
90EXH0661MAE	3281;FR20195	ISM 370	385@1800	232	141	1450@1200	294	119	PTOX, PCM,
SCEXH0661MAE	3281;FR20196	ISM 370	385@1800	232	141	1350@1200	274	111	Prox, PCM,
aCEXH0361MAE	3281;FR20198	ISM 350	365@1800	221	134	1350@1200	274	111	Ptox, PCM,
9CEXH0961MAE	3281:FR20199	ISM 350	365@1800	. 221	134	1250@1200	252	102	/ РТОХ, РСМ,
5CEXH0661MAE	3281:FR20197	ISM 350ST	385@1800	232	141	1450@1200	294	119	Д РТОХ, РСМ,
9CEXH0661MAE	3281:FR20200	ISM 330	350@1800	214	130	1350@1200	274	111 /	РТОХ, РСМ,
9CEXH0661MAE	3281:FR20201	ISM 385V	385@1800	232	141	1450@1200	294	119	PTOX, PCM,
9CEXH0661MAE	3281:FR20202	ISM 385V	385@1800	232	141	1350@1200	274	111	РТФХ\РСМ,
9CFXH06G1MAE	3281:FR20203	ISM 350V	350@1800	214	130	1450@1200	294	119	ртох, ксм,
9CEXH0661MAE	3281:FR20204	ISM 350V	350@1800	214	130	1350@1200	274	111	PTOX, PCM,
9CEXH0661MAE	3281:FR20205	ISM 385	385@1800	232	141,	1450@1200	294	119	TOX, PCM,
9CEXH0661MAE	3281;FR20127	ISM 365	365@1800	221	134	1350@1200	274	111	Уртох, РСМ,

NOI, TC, COR, ECM, EGR, OC, PTOR